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(54) FINE PARTICLE FLOW REGULATOR

(57) Abstract:

PURPOSE: To fully fulfill functions of an apparatus free from uneven heaping and separation of fine particles, by providing a springy member determining a clearance for the particle-flow between a lower opening edge of a hopper and a conical surface of a cone having a vertically movable projection.

CONSTITUTION: Fine particles fed into an auxiliary cylinder 3 of a fine particle-flow regulator 1 flow down to the center at a funnel 3a and further flow down in a small diameter cylinder 3b with a regulated flow pattern and the fine particles are piled up along the conical surface of a cone 4 in a hopper 7 closed by the cone 4 at a lower opening 7a. Then a fork member 21 of a flow regulation lever 6 lowers to a position where the cone comes to a halt due to a coil spring 27 to make a required clearance C between the edge at the lower opening 7a of the hopper 7 and the conical face of the cone 4. Accordingly the fine particles flow down uniformly with a constant flowing speed of a regulated

flow pattern to be layered without uneven heaping in the apparatus. The layered shape and volume in the hopper 7 are changeable by a vertical adjustment of the auxiliary cylinder 3 at stopper bolts 16 of a stop lever 5.

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